

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-6. (Cancelled)
7. (Currently amended) A multi-layer sensor according to claim ~~[[6]]~~ 13, wherein ~~[[the]]~~ said adhesive layer ~~(70, 108)~~ is applied only in a region of edges of ~~the front and rear~~ said first and second layers ~~(54, 56, 84, 86, 106)~~.
8. (Currently amended) A multi-layer sensor according to claim 7, ~~having a first layer (12) including a middle layer between said first and second layers~~ through which ~~[[an]]~~ said optical wave guide ~~(18, 42, 60)~~ is passed, ~~wherein said middle layer has a and a second layer (14, 32) which abuts on the first layer (12), the first layer (12) having greater compressibility than the second layer (14, 32)~~ said first and second layers.
9. (Cancelled)
10. (Currently amended) A multi-layer sensor according to claim ~~[[1]]~~ 12, wherein ~~[[the]]~~ said optical wave guide ~~(18, 42, 60)~~ is passed through ~~[[the]]~~ said sensor ~~(10, 50, 80, 100)~~ at least twice.
11. (Currently amended) A multi-layer sensor according to claim 10, wherein ~~[[the]]~~ said optical wave guide ~~(18, 42, 60)~~ is passed through ~~[[the]]~~ said sensor in a wave-like configuration.
12. (Previously presented) A multi-layer sensor comprising:
a first layer extending in a longitudinal direction and including a plurality of domes mounted therealong, each of said plurality of domes including a slot extending therethrough, said plurality of domes spaced apart from one another longitudinally and offset from one another in a lateral direction;

an optical wave guide retained solely by said plurality of domes, said optical wave guide extending through said slots in said plurality of domes; and

a second layer facing said first layer and selectively transmitting an external application of force to said optical wave guide, said second layer including ribs for deforming said optical wave guide towards said first layer in response to an impact in order to change the amount of light carried per unit of time through said optical wave guide.

13. (Previously presented) A multi-layer sensor as set forth in claim 12 wherein said first and second layers are joined together by an adhesive layer.

14. (Cancelled)